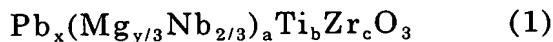


Abstract of the Disclosure

A piezoelectric element comprising: a ceramic substrate, a piezoelectric portion made of a piezoelectric ceramic composition containing a $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3\text{-PbZrO}_3\text{-PbTiO}_3$ ternary system solid solution composition having an average particle diameter of $1 - 10 \mu\text{m}$ with a maximum particle diameter being 5 times as large as the average particle diameter or less and being represented by the following general formula (1) as a main component and 0.05 to 10.0 mass% of NiO , and an electrode. The electrode is electrically connected to the piezoelectric portion, and the piezoelectric portion is solidly attached to the ceramic substrate directly or via the electrode.



wherein $0.95 \leq x \leq 1.05$; $0.8 \leq y \leq 1.0$; a , b and c are decimals falling in a range surrounded by $(a,b,c) = (0.550, 0.425, 0.025)$, $(0.550, 0.325, 0.125)$, $(0.375, 0.325, 0.300)$, $(0.100, 0.425, 0.475)$, $(0.100, 0.475, 0.425)$ and $(0.375, 0.425, 0.200)$ in the coordinates with coordinate axes of the a , b and c , and $a+b+c = 1.00$.